

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : William L. Bowden et al. Art Unit :
Serial No. : Examiner :
Filed : March 9, 2004
Title : ALKALINE BATTERY

Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

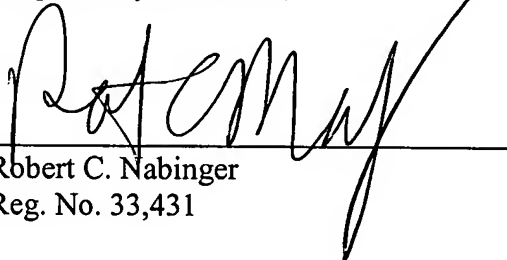
Applicants submit the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/988,297, filed on November 19, 2001. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,



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Date: March 9, 2004

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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-250002	Application No.
	Applicant William L. Bowden et al.		
	Filing Date March 9, 2004	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,133,856	01/09/79	Ikeda <i>et al.</i>			
	AB	Re30,458	12/23/80	Uetani <i>et al.</i>			
	AC	4,246,253	01/20/81	Hunter			
	AD	4,312,930	01/26/82	Hunter			
	AE	4,604,336	08/05/86	Nardi			
	AF	4,904,552	02/27/90	Furukawa <i>et al.</i>			
	AG	4,975,346	12/04/90	Lecerf <i>et al.</i>			
	AH	5,114,804	05/19/92	Stiles <i>et al.</i>			
	AI	5,425,932	06/20/95	Tarascon			
	AJ	5,596,278	01/21/97	Lin <i>et al.</i>			
	AK	5,759,510	06/02/98	Pillai			
	AL	5,955,052	09/21/99	Padhi <i>et al.</i>			
	AM	5,997,839	12/07/99	Pillai			
	AN	6,207,129	03/27/01	Padhi <i>et al.</i>			
	AO	6,225,009	05/01/01	Fleischer <i>et al.</i>			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AP	JP 1-120767	05/12/99	Japan				
	AQ	EP 0 728 701 A1	08/28/96	EPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AR	Ammundsen <i>et al.</i> , "Mechanism of Proton Insertion and Characterization of the Proton Sites in Lithium Manganate Spinel," Chem. Mater., Vol. 7, No. 11, pp. 2151-2160, (1995).
	AS	Bowden <i>et al.</i> , "Manganese Dioxide for Alkaline Zinc Batteries: Why Electrolytic MnO ₂ ?", ITE Letters on Batteries, New Technologies & Medicine, Vol. 1, No. 6, (2000).
	AT	Dahn <i>et al.</i> , "Thermal stability of Li _x CoO ₂ , Li _x NiO ₂ and λ-MnO ₂ and consequences for the safety of Li-ion cells," Solid State Ionics, Vol. 69, Nos. 3-4, pp. 265-270, (1994).
	AU	David <i>et al.</i> , "Structure Refinement of the Spinel-Related Phases Li ₂ Mn ₂ O ₄ and Li _{0.2} Mn ₂ O ₄ ," J. Solid State Chem., Vol. 67, pp. 316-323, (1987).

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-250002	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant William L. Bowden et al.	
		Filing Date March 9, 2004	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	BA	Geronov <i>et al.</i> , "Rechargeable Compact Li Cells with $\text{Li}_x\text{Cr}_{0.9}\text{V}_{0.1}\text{S}_2$ and $\text{Li}_{1+x}\text{V}_3\text{O}_8$ Cathodes and Ether-Based Electrolytes," J. of the Electrochemical Soc., Vol. 137, No. 11, pp. 3338-3344, (1990).
	BB	Giwa <i>et al.</i> , "Lithium Primary Envelope Cells," 16 th Intern. Seminar & Exhibition on Primary & Secondary Batteries, pp.Q1-11 (1999).
	BC	Hunter, J. C. and Tudron, F. B., "Nonaqueous Electrochemistry of Lambda MnO_2 ," Proc. Electrochem. Soc. Vol. 85-4, pp. 444-451, (1985).
	BD	Hunter, James C., "Preparation of a New Crystal of Manganese Dioxide: λ - MnO_2 ," Journal of Solid State Chemistry, Vol. 39, pp. 142-147, (1981).
	BE	Larcher <i>et al.</i> , "Synthesis of MnO_2 Phases from LiMn_2O_4 in Aqueous Acidic Media," J. Electrochem. Soc., Vol. 145, No. 10, pp. 3392-3400, (1998).
	BF	Manev, V. <i>et al.</i> , "Rechargeable lithium battery with spinel-related λ - MnO_2 1. Synthesis of λ - MnO_2 for battery applications," Journal of Power Sources, 43-44, pp. 551-559, (1993).
	BG	Mosbah <i>et al.</i> , "Phases Li_xMnO_2 Rattachees au Type Spinelle," with English abstract, Bater. Res. Bull, Vol. 18, pp. 1375-1381, (1938).
	BH	Patrice <i>et al.</i> , "Understanding the second electron discharge plateau in MnO_2 -based alkaline cells," ITE Letters on batteries, New Technologies and Medicine, Vol. 2, No. 4, (2001).
	BI	Read <i>et al.</i> , "Low Temperature Performance of λ - MnO_2 in Lithium Primary Batteries," Solid State Letters, Vol. 4, No. 10, pp. A162-165, (2001).
	BJ	Schilling <i>et al.</i> , "Modification of the High-Rate Discharge Behavior of Zn- MnO_2 Alkaline Cells through the Addition of Metal Oxides to the Cathode," ITE Letters on Batteries, New Technologies & Medicine, Vol. 2, No. 3, (2001).
	BK	Tarascon <i>et al.</i> , "Chemical and electrochemical insertion of Na into the spinel λ - MnO_2 phase," Solid State Ionics, Vol. 57, pp. 113-120, (1992).
	BL	Tarascon <i>et al.</i> , "The Spinal Phase of LiMn_2O_4 as a Cathode in Secondary Lithium Cells," J. Electrochem. Soc., Vol. 138, No. 10, pp. 2859-2864, (1991).
	BM	Tarascon, J. M. and Guyomard, D., "The $\text{Li}_{1+x}\text{Mn}_2\text{O}_4/\text{C}$ Rocking-Chair System: A Review," Electrochimica Acta, Vol. 38, No. 9, pp. 1221-1231, (1991).
	BN	Xia, Xi and Sun Weiwei, "The electrochemical performance of λ - MnO_2 in alkaline solution," abstract only, Dianyuan Jishu, 23 (Suppl.), pp. 74-76, (1999).

Examiner Signature	Date Considered
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